Description
Refer to DTC P2714 (See page AT-119).

Monitor Description
When an open or short is detected in the linear solenoid valve (SLT) circuit, the ECM interprets this as a fault. The ECM turns on the MIL and stores the DTC.

Monitor Strategy

<table>
<thead>
<tr>
<th>Related DTCs</th>
<th>P2716: Shift solenoid valve SLT/Range check</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required sensors/Components</td>
<td>Shift solenoid valve SLT</td>
</tr>
<tr>
<td>Frequency of operation</td>
<td>Continuous</td>
</tr>
<tr>
<td>Duration</td>
<td>Condition (A) and (B): 1 second</td>
</tr>
<tr>
<td>MIL operation</td>
<td>Immediate</td>
</tr>
<tr>
<td>Sequence of operation</td>
<td>None</td>
</tr>
</tbody>
</table>

Typical Enabling Conditions
The following conditions are common to Condition (A) and (B).

<table>
<thead>
<tr>
<th>Condition (A)</th>
<th>Condition (B)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solenoid current cut status</td>
<td>Not cut</td>
</tr>
<tr>
<td>Battery voltage</td>
<td>11 V or more</td>
</tr>
<tr>
<td>Battery voltage</td>
<td>8 V or more</td>
</tr>
</tbody>
</table>

Typical Malfunction Thresholds
Either of the following conditions is met: Condition (A) or (B)

Condition (A)
Solenoid status (SLT) from Hybrid IC Fail

Condition (B)
Hybrid IC status Fail

Component Operating Range
Shift solenoid valve SLT
Resistance: 5.0 to 5.6 Ω at 20°C (68°F)
**INSPECTION PROCEDURE**

1. **INSPECT TRANSMISSION WIRE (SLT)**

   **Transmission Wire Side:**

   (Connector Front View):

   - **(a)** Disconnect the transmission wire connector from the transmission.
   - **(b)** Measure the resistance.
     - **Standard resistance**
     - | Tester Connection  | Specified Condition          |
     - |-------------------|------------------------------|
     - | 14 (SLT+) - 6 (SLT-) | 5.0 to 5.6 Ω at 20ºC (68ºF) |
   
   - **(c)** Measure the resistance.
     - **Standard resistance (Check for short)**
     - | Tester Connection               | Specified Condition          |
     - |-------------------|------------------------------|
     - | 14 (SLT+) - Body ground | 10 kΩ or higher              |
     - | 6 (SLT-) - Body ground   | 10 kΩ or higher              |

   **OK**

   **NG**

   - Go to step 3
2 CHECK HARNESS AND CONNECTOR (TRANSMISSION WIRE - ECM)

(a) Connect the transmission wire connector to the transmission.
(b) Disconnect the ECM connector.
(c) Measure the resistance.

**Standard resistance**

<table>
<thead>
<tr>
<th>Tester Connection</th>
<th>Specified Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>B2-13 (SLT+) - B2-12 (SLT-)</td>
<td>5.0 to 5.6 Ω at 20°C (68°F)</td>
</tr>
</tbody>
</table>

(d) Measure the resistance.

**Standard resistance (Check for short)**

<table>
<thead>
<tr>
<th>Tester Connection</th>
<th>Specified Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>B2-13 (SLT+) - Body ground</td>
<td>10 kΩ or higher</td>
</tr>
<tr>
<td>B2-12 (SLT-) - Body ground</td>
<td>10 kΩ or higher</td>
</tr>
</tbody>
</table>

NG REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

REPLACE ECM

3 INSPECT SHIFT SOLENOID VALVE SLT

(a) Remove the shift solenoid valve SLT.
(b) Measure the resistance.

**Standard resistance**

<table>
<thead>
<tr>
<th>Tester Connection</th>
<th>Specified Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - 2</td>
<td>5.0 to 5.6 Ω at 20°C (68°F)</td>
</tr>
</tbody>
</table>

(c) Connect the positive (+) lead with a 21 W bulb to terminal 2 and the negative (-) lead to terminal 1 of the solenoid valve connector, then check the movement of the valve.

OK: The solenoid makes operating sounds.

NG REPLACE SHIFT SOLENOID VALVE SLT
OK

REPAIR OR REPLACE TRANSMISSION WIRE